SERIES 4
460

LED TV
Installation manual

imagine the possibilities

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Model _____ Serial No. _____

SAMSUNG

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Introduction

This TV B2B (Business to Business) model is designed for hotels or the other hospitality businesses, supports a variety of special functions, and lets you limit some user (guest) controls.

Operational Modes

This TV only supports Standalone mode.

- Stand-alone mode : In this mode, this TV works alone without an external SBB or the STB.

The TV has a Hotel (Hospitality) Menu that lets you easily set its various hospitality functions. Please see pages 17 to 21.

The Menu also lets you activate or de-activate some TV and hospitality functions so you can create your optimal hospitality configuration.

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 format images, stock or news bars or crawls) on the screen. Displaying still pictures continually can cause uneven screen wear, which will affect image quality. To reduce the chance that this effect will occur, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display a full screen image.
- Reduce brightness and contrast to help to prevent the occurrence of after-images.
- Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to the proper user manual section for details.

Ensuring Proper Ventilation

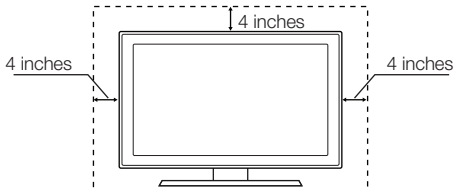
When you install the TV, maintain a distances of at least 4 inches between the TV and other object (walls, cabinet sides, etc.) to ensure proper ventilation.

Failing to maintain proper ventilation may result in a fire or problems with the product caused by an increase in its internal temperature.

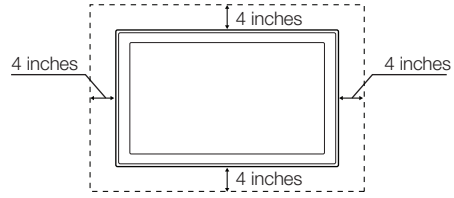
✎ When using a stand or wall-mount, use parts provided by Samsung Electronics only.

✎ Using parts provided by another manufacturer may cause difficulties with the product or result in injury caused by the product falling.

Installation with a stand.



Installation with a wall-mount.



Additional Information

✎ The appearance of the TV and its accessories may differ from the illustrations in this manual, depending on the TV.

✎ Be careful when the you touch the TV. Some parts can be hot.

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Accessories

✎ Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.

✎ The items' color and shape may vary, depending on the model.

✎ The parts for the stand are listed under Stand Components on the following page.

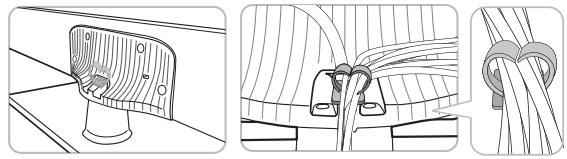
List of Parts

- Remote Control (AA59-00817A) & Batteries (AAA x 2)

- Power Cord

- Safety Guide / Quick Setup Guide (Not available in all locations)

- Holder-Wire stand

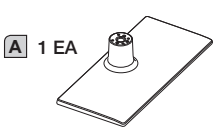


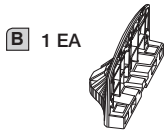
- Assembling the Holder Wire Stand

Installing the LED TV Stand

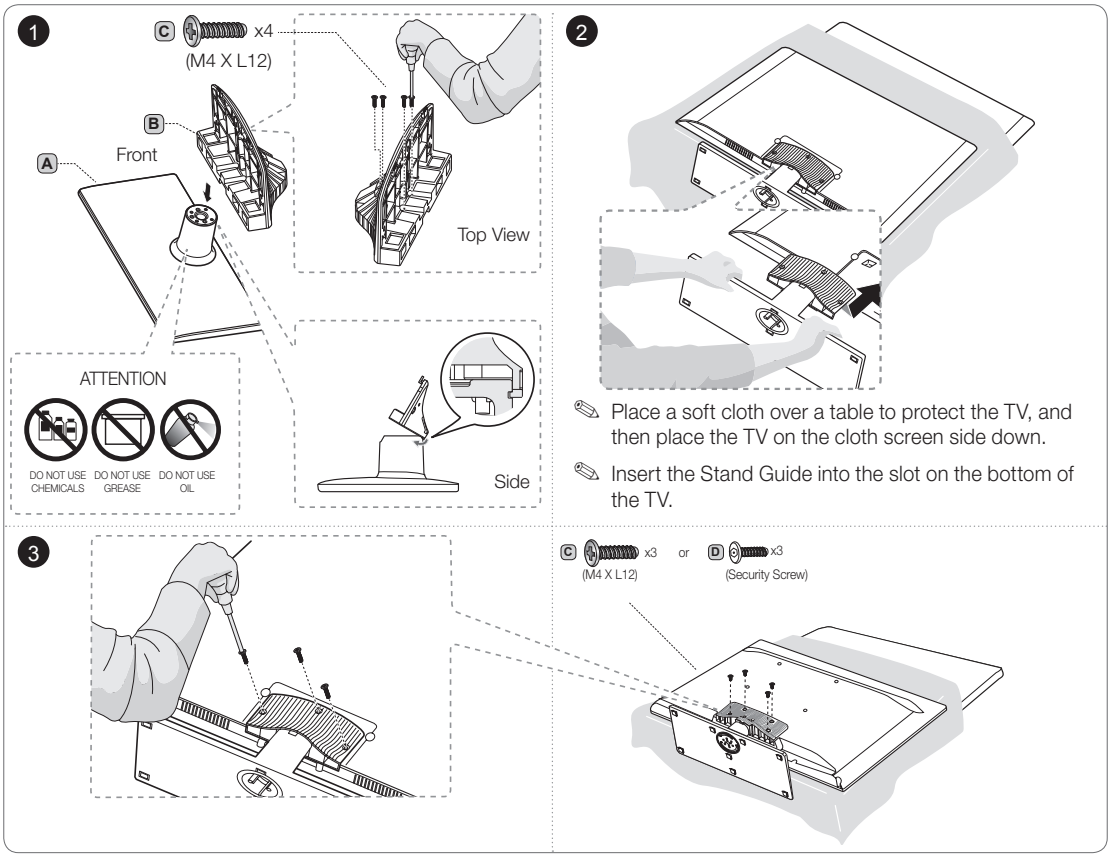
Components

When installing the stand, use the provided components and parts.





- Stand (differs depending on the model)
- Guide Stand
- Screws
- Security Screws (3EA)

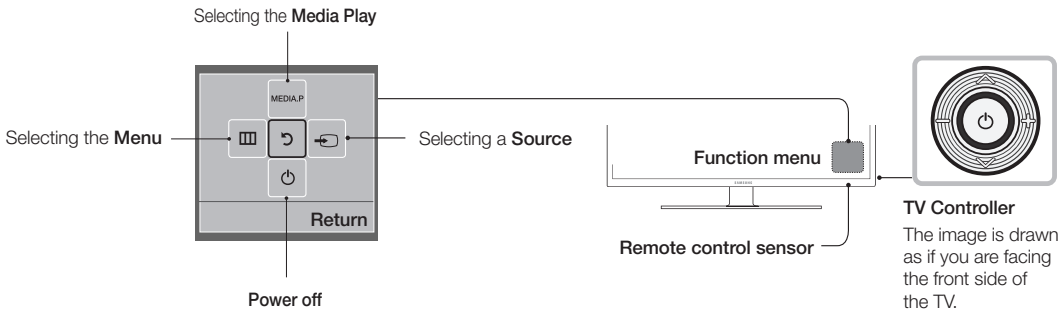


NOTES

- Make sure to distinguish between the front and back of the Stand and Stand Guide when connecting them.
- Make sure that at least two people lift and move the LED TV.
- The number of screws may differ depending on the model.

Using the TV's Controller

The TV's Controller, a small joy stick like button on the rear right side of the TV, lets you control the TV without the remote control.



✎ The product color and shape may vary depending on the model.

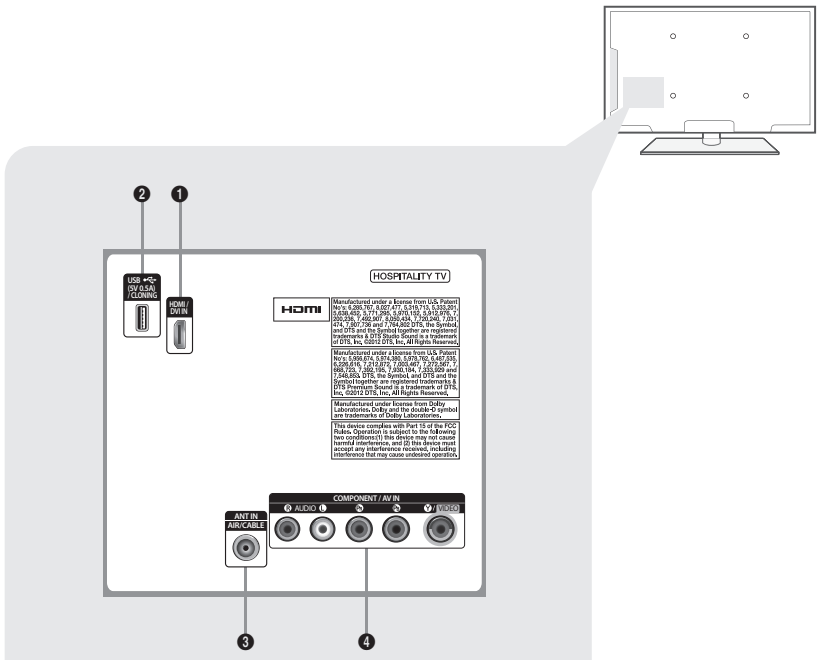
✎ To exit the menu, press the Controller for more than 1 second.

✎ When selecting a function by moving the controller backwards/forwards/left/right, be sure not to press up on the controller. If you press up first, it will not operate correctly.

Standby mode

Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

The Connection Panel



✎ Whenever you connect an external device to your TV, make sure that the TV and the device are turned off.

✎ When connecting an external device, match the color of the connection terminal to the cable.

❶ **HDMI / DVI IN**: Connects to the HDMI jack of a device with an HDMI output.

- ✎ No sound connection is needed for an HDMI to HDMI connection.
- ✎ Use the **HDMI / DVI IN** jack for DVI connection to an external device.
- ✎ **PC/DVI AUDIO IN** input is not supported.
- ✎ If an HDMI to DVI cable is connected to the **HDMI / DVI IN** port, the audio does not work.

❷ **USB / CLONING**

- Connector for software upgrades and Media Play, etc.
- Service connection.

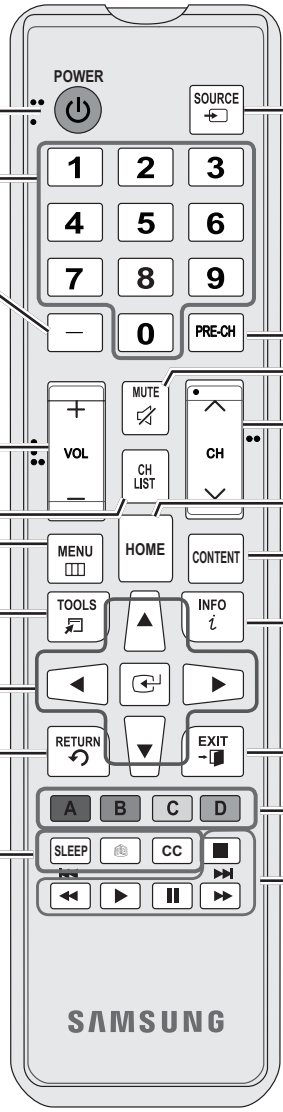
❸ **ANT IN** or **AIR/CABLE**

- To view television channels correctly, the TV must receive a signal from one of the following sources:
- An outdoor antenna / A cable television system / A satellite receiver.

❹ **COMPONENT / AV IN**

- Connects Component video / audio.
- Connect component video cables (optional) to the component jacks ("P_R", "P_B", "Y") on the rear of your TV and the other ends to corresponding component video out jacks on the DVD.
- If you wish to connect both the Set-Top Box and DVD, you should connect the Set-Top Box to the DVD and connect the DVD to the component jacks ("P_R", "P_B", "Y") on your TV.
- The P_R, P_B and Y jacks on your component devices (DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables (optional) to [R - AUDIO - L] on the rear of the TV set and the other ends to corresponding audio out jacks on the DVD.

Using the TV's Controller



Turns the TV on and off.

Press to access channels directly.

Press to select additional digital channels being broadcast by the same station. For example, to select channel '54-3', press '54', then press '-' and '3'.

Adjust the volume.

Display the channel list on the screen.

Display the main on-screen menu.

Quickly select frequently used functions.

Select on-screen menu items and change menu values.

Return to the previous menu.

SLEEP: Sets the Sleep Timer.

: Turns the 3D image on or off. (Not available)

CC: Controls the caption decoder.

Display and select the available video sources.

Return to the previous channel.

Cut off the sound temporarily.

Change channels.

HOME: Display the REACH menu if REACH has been downloaded to the TV.

Use these buttons in **Contents Home**.

Press to display channel and TV information on the TV screen.

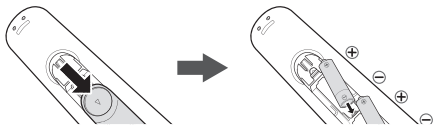
Exit the menu.

Use these buttons according to the directions on screen (to perform a function, display a screen, etc.).

Use these buttons in a specific feature.

Installing the batteries (Battery size: AAA)

Rear of the Remote



✎ After you have installed the batteries, use a screwdriver to screw in the screw that holds the battery cover closed.

Installing Batteries into the Remote (battery size: AAA)

Match the polarity of the batteries to the symbol in the batter compartment.

✎ Note

- Use the remote control within 23~33 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

Setting the Hotel Option Data

To Enter this menu: Press the **MUTE → 1 → 1 → 9 → ENTER↵** buttons in order.

To exit from this menu : Power Off (or Power Off and unplug if you have changed SI Vendor), and then turn on again. Any changes you made are saved.

Menu	Item	initial Value	Description
Hospitality Mode	Hospitality Mode	Standalone	Select Hospitality mode. • Stand-alone mode : TV works alone, without an SI STB or SBB.
SI Vendor	SI Vendor	Samsung	• Stand-alone mode : OFF / Smoovie
Power On	Power On Channel EN	Last Saved	Set the default values that will be applied when the TV is turned on. • User Defined : Lets you set Power On Channel and Channel Type manually. See Power On Channel and Channel Type below. • Last Saved : If you select this item, when the TV is turned on, it displays the channel it was displaying when it was turned off.
	Power On Channel	3	When the TV is turned on, it switches automatically to this channel.
	Channel Type	...	• Select channel band : AIR (analog air band), DTV (digital air band), CATV (analog cable band), CDTV (digital cable band).
	Power On Volume EN	Last Saved	• User Defined : Lets you set the Power On Volume manually. See Power On Volume below. • Last Saved : When the TV is turned on, it returns to the volume that had been set when the power had been turned off.
	Power On Volume	...	The TV turns on with this Volume Level in Stand Alone Hospitality mode.
	Min Volume	0	The minimum Volume Level the user can set in Stand Alone Hospitality mode.
	Max Volume	100	The maximum Volume Level the user in Stand Alone Hospitality mode.
	Panel Button Lock	Unlock	Turning the front panel (local key) operations on/off. • Unlock : Unlocks all panel keys. • Lock : Locks all panel keys. • Power : Locks all panel buttons except Power. • Menu/Source : Locks the Menu and Source.
	Power On Source	TV	Select the input source the TV displays when turns on.
	Power On Option	Last Option	Determines the TV's state when power returns after a power failure or after you have unplugged the TV and then plugged it in again. • LAST OPT : Returns to its last Power state. If it was in Stand-by, it returns to Stand-by. If it was on, it turns on. • Power On : When the power returns, the TV turns on. • Standby : When the power returns, the TV enters the Standby mode.
Channel	Channel Setup		Gives you direct, immediate access to some of the Channel menu functions on the user Channel menu such as Auto Program, Antenna selection, etc.
	Channel Editor		The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can: • Change the channel numbers and names, and sort the channels in your desired channel number order. • Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen. The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.
	Channel Bank Editor		If you set Hospitality Mode to Standalone and SI Vendor to Smoovie, this item is displayed. Lets you edit the channel bank that works with the Smoovie Remote. Refer to page 32.
	Dynamic SI	ON	• On : Check the DTV Program channel number. (If Dynamic SI is On, it is not availale to edit DTV channels in Channel Editor.) • Off : Does not check the DTV Program channel number. (If Dynamic SI is Off, it is available to edit DTV channels in Channel Editor,but additional DTV channel program number update is not supported.)
Menu OSD	Picture Menu Lock	OFF	Enable or disable the Picture Menu.
	Menu Display	ON	• On : The Main Menu is displayed. • Off : The Main Menu is not displayed.

Menu	Item	initial Value	Description
Operation	Panel Button Lock	Unlock	Turning the front panel (local key) operations on/off. • Unlock : Unlocks all panel keys. • Lock : Locks all panel keys. • OnlyPower : Locks all panel keys except the Power panel key. • Menu/Source : Locks the Menu and Source panel keys.
Clock	Local Time	Manual	Select the way to update clock data. Use clock data from a DTV channel to set the clock automatically or set the clock manually when the TV is in stand-alone mode.
Music Mode	Music Mode AV	OFF	Allows music output from an mp3/audio player connected to an AV Input Source on the TV. When on, you can hear sound from the player through the TV whether there is a video signal or not. Also mutes the video so the TV does not display a picture when a guest is playing music. The TV's backlight, however, remains on.
	Music Mode Backlight	OFF	When set to Off, the TV's backlight is turned off entirely when a guest uses the Music mode. To save energy, set to Off.
External Source	USB Media Mode	Default	When a USB device is connected to the TV : • Default : A popup window appears. • Automatic : Opens the USB contents menu automatically. • Disable : Neither the popup window nor the menu appears.
	External Source Banner	ON	If set to On, the TV displays the External Source Banner (information) when you change the TV source to another external input, press the Info key, or turn the TV on. • On : The External Source information is displayed on the TV screen. • Off : The External Source information is not displayed on the TV screen.
	Auto Source	OFF	• On : When an external input source is connected to the TV, the TV identifies the input source, and then automatically switches to that input source. • Off : Auto Source function is Off.
	Anynet+ Return Source	Power On Src	Select the return TV source after stopping an Anynet+(HDMI-CEC) connection. (This fuction is especially useful for the Guestlink RJP.)
Eco Solution	Energy Saving	OFF	Adjusts the brightness of the TV to reduce power consumption. • Off : Turns off the energy saving function. • Low : Sets the TV to low energy saving mode. • Medium : Sets the TV to medium energy saving mode. • High : Sets the TV to high energy saving mode.
Logo/ Message	Welcome Message	OFF	Displays a the Welcome Message for 5 seconds when the TV turns On. See Page 22.
	Edit Welcome Message		Edits the Welcome Message.
	Hospitality Logo	OFF	Turns the Hospitality logo feature On or Off, If On, when the TV is turned on, the Logo is displayed, before the signal from the initial source, for the amount of time set in "Logo Display Time".
	Hospitality Logo DL	...	Downloads the Hospitality logo. Hospitality logo file requirements: • BMP or AVI files only. • Max file size : BMP - 960 X 540. AVI - 30MB. • The file can only be named samsung.bmp or samsung.avi.
	Logo Display Time	...	Hospitality Logo Display Time (3/5/7 seconds).

Menu	Item	initial Value	Description
Cloning	Clone TV to USB		Clone the current TV options to a USB memory device.
	Clone USB to TV		Clone the saved TV options on a USB memory device to the TV.
	Setting Auto Initialize	OFF	If you set Setting Auto Initialize to On, and the TV's power is turned off and on, the guest side menu items are restored to their cloned values. See page 30.
REACH Server	REACH Server update Time	1hour	Lets you set when data such as updated SW, cloning files, and S-LYNC REACH contents is downloaded from the REACH server to the TV : • 1hour : Every hour • 2hour : Every 2 hours • 12:00 am : every 12:00 a.m. • 12:00 pm : every 12:00 p.m. • 2:00 pm : every 2:00 p.m.
	REACH Update Immediate	OFF	• On : Whenever the TV enters standby mode (the power cord is plugged in and the power is off), the REACH data is updated on the TV. • Off : The REACH data is only updated on the TV at the REACH server update time.
	REACH Server Channel	87	Assign a DTV channel number to carry the update REACH data. This channel number must be the same as the number set on the Reach server.
	REACH Server Version	0	Displays the current REACH data version.
	REACH Server Group ID	All	Select the group ID of the REACH server. (Refer to the REACH server manual for more details)
	S-LYNK REACH	Off	On : The S-LYNK REACH menu is displayed. Off : The S-LYNK REACH menu is not displayed.
	S-LYNK REACH Volume	ON	On : The TV sound of the current TV source is continuously outputted even when the S-LYNK REACH menu is displayed. Off : The TV sound of the current TV source is stopped when the S-LYNK REACH menu is displayed.
	IPG Room Type	Default	Selects the IPG room type of the REACH server. (Refer to the REACH server manual for the more information.)
	TICKER	OFF	• On : The TICKER content is displayed. • Off : The TICKER content is not displayed.

Menu	Item	initial Value	Description
Service	CAS	Pro:idiom	Configures CAS support. Applies to only the NB673, NB677, and NB678 models. OFF : Turns off CAS support. LYNK DRM : Select to turn on S-LYNK DRM CAS support only. Pro:idiom : Select to turn on Pro:Idim CAS support only. LYNK DRM,PI : Select to have the TV support S-LYNK DRM CAS and Pro:Idiom CAS.
	Self Diagnosis		Enter Self Diagnosis Menu. • Picture Test: Use to check for picture problems. If the problem appears in the test picture, select YES, and then follow the directions on the screen. • Sound Test: Use the built-in melody to check for sound problems. If the problem occurs during the test, select YES, and then follow the directions on the screen.
	PI AES Data	0xD279	Displays the current state of Pro:Idion AES
	Self Diagnosis for TV		Lets you check the state of the TV picture and sound. • Picture Test : Use to check for picture problems. If the problem appears in the test picture, select YES, and then follow the directions on the screen. • Sound Test : Use to check for sound problems. If the problem occurs during the test, select YES, and then follow the directions on the screen.
	Self Diagnosis for HTV		Lets you check the state of Pro:Idiom and its communication with the SI STB or SBB. If you have any problems with the Pro:idiom encryption channel or the communications with the SI STB or SBB, use this diagnosis function. If Pro:Idiom DTV Channel Key Loss appears to have failed and the Pro:Idim encryption channel has failed to play content, first check the broadcasting systems related to Pro:Idiom encryption. If your broadcasting system does not have a problem, contact Samsung Service. If STB SI Vendor Setting appears to have failed and communication with the SI STB or SBB has failed, first check your SI STB or SBB. If your SI STB or SBB does not have a problem, contact to Samsung Service.
	Upgrade Now		Lets you upgrade the TV SW with a USB memory stick. See Page 31.
	Service Pattern	32GRAY	Lets you check the state of the TV picture by displaying picture test patterns. Press the Menu button to turn off the test patterns and exit.
	ATV Cable AGC Gain	Default	Lets you control the AGC gain of the analog cable channels. Don't change the default value unless problems occur.
	DTV Cable AGC Gain	Default	Lets you control the AGC gain of the digital cable channels. Don't change the default value unless problems occur.
	TV reset		Returns all settings on the TV to their factory defaults.

✎ REACH (Remote Enhanced Active Control for Hospitality) is a professional, interactive remote controller that lets you deliver TV firmware updates, cloning data, channel mapping changes, S-LYNK REACH contents, and TICKER contents through RF DTV to several hundred hospitality TVs simultaneously. The REACH functions are available only in stand-alone mode. The REACH Server is sold separately. Refer to the REACH server manual enclosed with the REACH server product for more operating information.

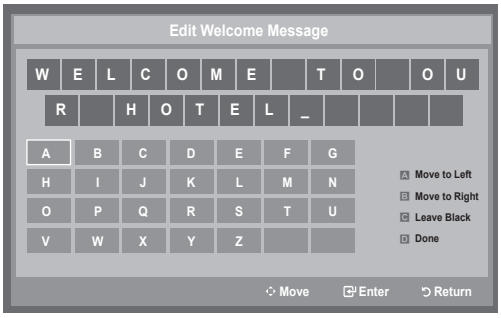
Welcome Message

The Welcome Message feature displays a custom message on the TV every time it is turned on.

- Welcome message settings are in the Hotel Option Menu.
- Set Welcome Message to ON to display the message when the TV is powered on.

- You can make the Welcome Message up to 25 characters long and edit it in the Hotel Service menu.
- Welcome Message supports the following characters:

  ✎ Capital Letters from A to Z.
- You can edit the Welcome Message by using the remote's navigation, color, and Enter buttons in the "**Edit Welcome Message**" OSD (See the illustration below.)


Edit Welcome Message
W E L C O M E T O O U
R H O T E L _
A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z
A Move to Left
B Move to Right
C Leave Black
D Done
Move
Enter
Return

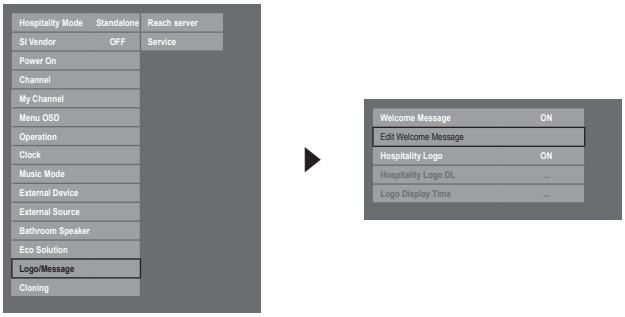
Below are the general directions for navigating and changing letters on the Edit Welcome Message screen:

- Press the **A** button on the remote to move to the left in the message.
- Press the **B** button to move to the right.
- After you have selected a position in the message, use the arrow buttons on your remote to select a letter in the alphabet below the message.
- Press **Enter** to place a letter into the position you selected.
- Press the **C** button to erase a letter in a position or enter a blank.
- Press **Return** or the **D** button to exit.

Hotel Logo

The Hospitality Logo function displays the Hotel's picture image when the TV is initially powered on.

- Hospitality Logo settings are in the Hotel mode menus.
- The Logo Download and Logo Display Menu items are enabled when you turn the Hospitality Logo option on.
- If there is a logo image stored in memory and the Hospitality Logo option is on, the Hospitality logo is displayed when the TV is turned on.
- The Hospitality logo is not displayed when the Hospitality Logo option is off, even if the logo image has been loaded into the TV.



- **Hospitality Logo**
  - This option lets you choose whether the Hospitality Logo image is displayed or not.
  - Initial value is OFF.
  - Can be set to OFF or ON.
  - When set to ON, the Logo Download and Logo Time Display menu items become accessible.

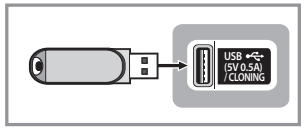
- **Logo Download**
  - This option lets you download the logo image to the TV's memory from a USB device.
  - A wait message appears while the image is being copied to the TV.
  - A "completed" message appears when the copy operation finishes successfully.
  - The word "failed" appears if the copy operation was unsuccessful.
  - **No USB** appears if no USB device is connected.
  - **No File** appears if there is no file to copy on the USB device or the file is in the wrong format (must be a BMP or AVI file). If No File appears and there is a logo file on the USB device, check the file format.

- **Logo File Format**
  - The TV supports only BMP and AVI format.
  - The file name must be samsung.bmp or samsung.avi.
  - The maximum resolution of the BMP format is 960 x 540.
  - The maximum file size for AVI format is 30MB.
  - The TV does not change the size or scale of the image.

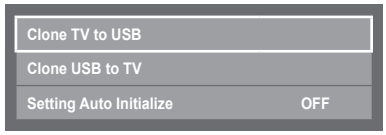
USB Cloning

The USB Cloning function lets you download user-configured settings (**Picture, Sound, Input, Channel, Setup**, and **Hotel Setup**) from one TV to a USB device, and then upload these settings from the USB device to other TV sets. This lets you create a standard array of settings and distribute that standard array to all the TVs in your facility.

- **Cloning from TV to USB**: Copies stored menu settings from a TV to a USB device.



1. Insert a USB drive into the **USB** port on the rear of the TV.
2. Enter the hotel option menu by pressing these buttons in order. **MUTE** → **1** → **1** → **9** → **ENTER**↵
3. Press the ▲ or ▼ button to select **Clone TV to USB**, and then press the **ENTER**↵ button.
4. The message **Clone TV to USB** is displayed. Press the **ENTER**↵ button.
5. The TV displays one of the following messages:
   - **In Progress**: Copying data to USB.
   - **Completed**: Copy operation was successful.
   - **Failed**: Copy operation was not successful.
   - **No USB**: USB is not connected.

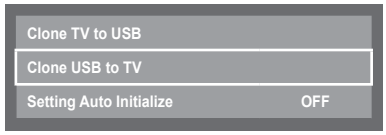


The clone folder will be labeled T-NVTF6AKUCB.

✎ The cloned values include the values on the Guest side menu (brightness, picture size, contrast, etc.) and the Hotel side menu.

- **Cloning from USB to TV**: Copies menu settings from a USB device to a TV.

✎ **Shortcut**: Turn the TV off, insert the USB device, turn the TV on, and then press the **ENTER**↵ button for 5 seconds.



To clone data to the TV using the Hotel menu, follow these steps:

1. Turn the TV off.
2. Insert the USB drive into the USB port on the rear of the TV.
3. Turn the TV on.
4. Enter the Hotel menu by pressing these buttons in order. **MUTE** → **1** → **1** → **9** → **ENTER**↵
5. Press the ▲ or ▼ button to select “Clone USB to TV”, and then press the **ENTER**↵ button.
6. The message **Clone USB to TV** is displayed. Press the **ENTER**↵ button.
7. The TV displays one of the following messages:
   - **In Progress**: Copying data to TV.
   - **Completed**: Copy operation was successful.
   - **Failed**: Copy operation was not successful.
   - **No USB**: USB is not connected
   - **No File**: There is no file to copy on the USB device. If you get a No File message, check the folder on your USB device. The folder name should be T-NVTF6AKUCB.

✎ Tables that list the settings that are cloned in the Hotel Menus begin on the next page.

• Settings Cloned in the Hotel Menu

Menu Item	Cloning Support	Applicable Region
Hospitality Mode	Yes	All
SI Vendor	Yes	All except Brazil
Power On Channel EN	Yes	All
Power On Channel	Yes	All
Channel Type	Yes	All
Power On Volume EN	Yes	All
Power On Volume	Yes	All
Min Volume	Yes	All
Max Volume	Yes	All
Power On Source	Yes	All
Power On Option	Yes	All
Channel Setup	N/A	All except Hospital
Channel Editor	N/A	All
Channel Bank Editor	N/A	Smooovie SI and Hospital
Channel Bank Service Level	Yes	Hospital Models Only
Mixed Channel Map	Yes	EU
Dynamic SI	Yes	US and US Hsopital
Channel Rescan Message	Yes	EU and EU Hospital
Pan Euro MHEG	Yes	EU and EU Hospital
Channel Auto Store	N/A	Hospital Models Only
My channel En	Yes	EU and EU Hospital
Genre Editor	N/A	EU and EU Hospital
Picture Menu Lock	Yes	All
Menu Display	Yes	All
Channel Menu Display	Yes	ASIA Models only
Panel Button Lock	Yes	All
Mute On CC	Yes	US Hsopital Only
Subtitle Auto On	Yes	EU and EU Hospital
SW Clock	Yes	EU and EU Hospital
Local Time	Yes	EU and EU Hospital
Time Format	Yes	EU and EU Hospital
CLOCK Normal Dim.	Yes	EU
CLOCK Standby Dim.	Yes	EU
Music Mode AV	Yes	All
Music Mode PC	Yes	All
Music Mode Comp	Yes	All
Music Mode Backlight	Yes	All
7610 Priority AV	Yes	All
7610 Priority PC	Yes	All
7610 Priority HDMI	Yes	All
7610 AV Option	Yes	All

RJP HDMI Option	Yes	All
HDMI Music Mode	Yes	US and US Hsopital
Sound Bar Out	Yes	All
Video Out	Yes	ASIA Models only
USB Media Mode	Yes	US and EU
External Source Banner	Yes	All
Auto Source	Yes	All
Anynet+ Return Source	Yes	All Models except Hospital
Sub Amp Mode	Yes	All except US
Sub Amp Volume	Yes	All except US
Pillow Speaker Type	Yes	Hospital Models Only
Speaker Select	Yes	Hospital Models Only
Pillow Volume	Yes	Hospital Models Only
Energy Saving	Yes	All
Energy Saving Timer	Yes	EU
Welcome Message	Yes	All
Edit Welcome Message	N/A	All
Hospitality Logo	Yes	All
Hospitality Logo DL	N/A	All
Logo Display Time	Yes	All
Clone TV to USB	N/A	All
Clone USB to TV	N/A	All
Setting Auto Initialize	Yes	All
SIRCH Update Time	Yes	All except Brazil/ASIA_READY
SIRCH Update Immediate	Yes	All except Brazil/ASIA_READY
Manual SIRCH	N/A	All except Brazil/ASIA_READY
SIRCH Channel	Yes	All except Brazil/ASIA_READY
SIRCH Version	N/A	All except Brazil/ASIA_READY
SIRCH Group ID	No	US
REACH	Yes	All except Brazil/ASIA_READY
IPG Room Type	No	Guestek
CAS	Yes	US and US Hsopital
PI AES Data	N/A	US and US Hsopital
Self Diagnosis	N/A	All
PI AES Log	Yes	US and US Hsopital
View PI AES Log	N/A	US and US Hsopital
SW Upgrade	N/A	All
Service Pattern	Yes	All
ATV Cable AGC Gain	Yes	US and US Hsopital
DTV Open Cable AGC Gain	Yes	US and US Hsopital
TV Reset	N/A	All

Multi Code Remocon

A Multi Code Remocon is a special remote which is designed to control multiple TVs.

This function is useful where there is more than one TV in a location.

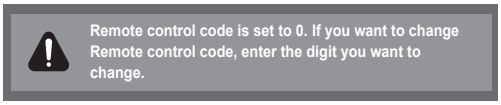
You can control up to 10 TVs with a different ID code of each remote with no conflicts between the TVs. ID numbers are displayed on each TV's OSD.

The Initial ID code for each TV is “0”.

- You can set and reset the ID code in Analog TV mode or PC mode. (Not available in DTV mode.)
- You can set the ID code to any digit from 0 to 9.
- To set a TV's ID code, follow these steps:
  1. Aim the remote at the TV, and then press the **MUTE** button and the **RETURN** button simultaneously for more than 7 seconds. When you stop pressing the buttons, the TV displays the current ID in the middle of the screen and the words, "Remote control code is set to x. If you want to change the Remote control code, enter the digit you want to change."
  2. Press the number on the remote you want to assign to the TV. The TV displays the following words:
     "Remote control code is changed to x."

     ✎ The TV will display the OSD until you press the Exit button.

  See the example below.

  Example: After you see the message above, if you press 1, the TV and Remote will be set to ID code 1. The TV then displays the following message: “Remote control code is changed to 1”

  The TV can then only be controlled by a remote which has the same ID code (1).
- To reset the ID code, press the **MUTE** button and the **EXIT** button simultaneously for more than 7 seconds. When you stop pressing the buttons, the ID codes of the TV and Remote are reset to “0”. “Remote control code is set to 0.” appears on the TV.

Setting Auto Initialize

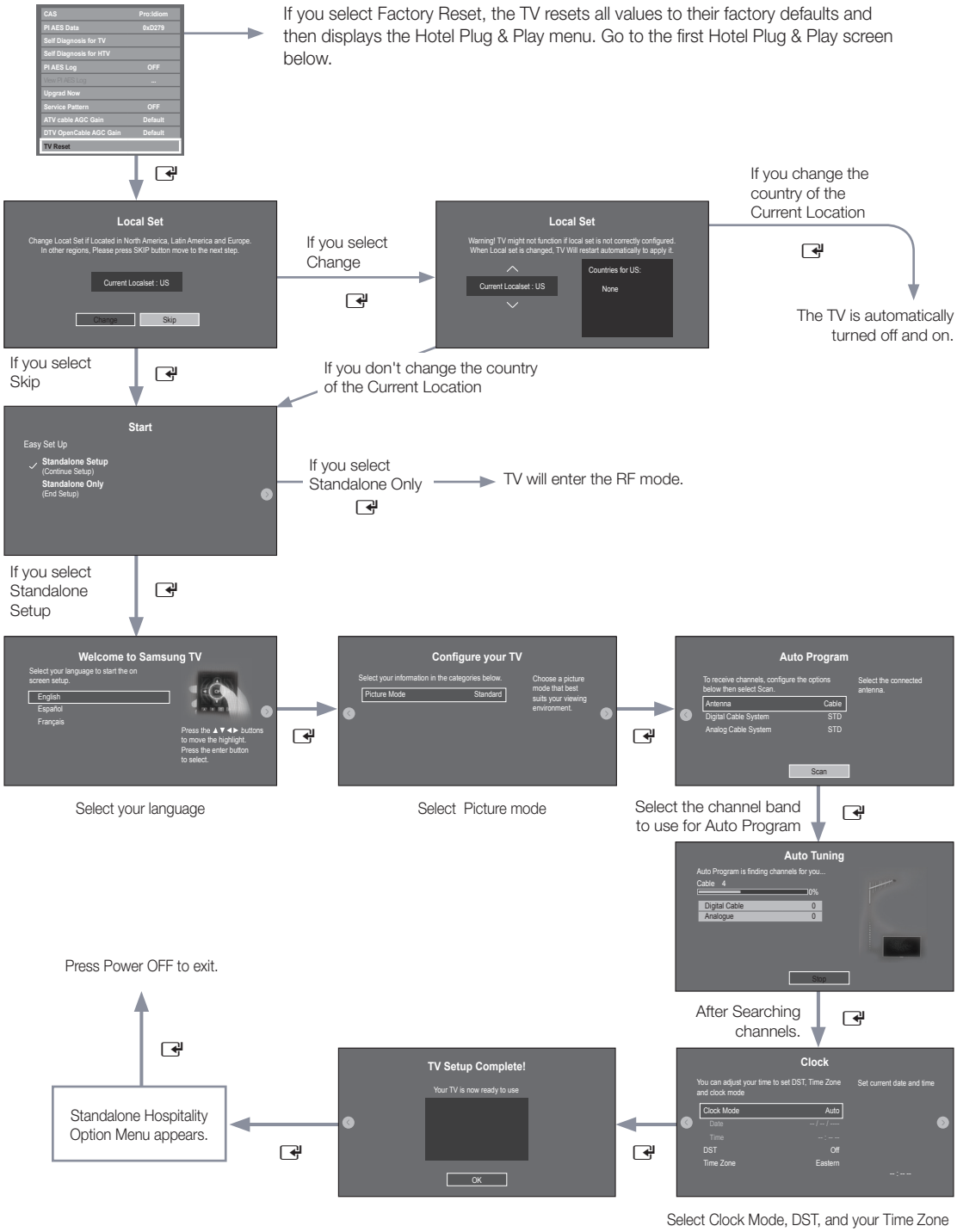
When you clone settings from one TV to another, you clone both the guest side menu and hotel side menu settings: Picture, Sound, Input, Channel, Setup, and Hotel Setup. This lets you set nearly all the menu values on your hospitality TVs to the same, standard settings. If you allow guests access to the guest side menus, for example - the Picture menu - they can change the settings in those menus so they are no longer standard. If you set the Setting Auto Initialize function to On, the TV automatically restores (initializes) any guest-side menu values to the cloned, standard values when the TV is turned off and then turned on again. Note that Setting Auto Initialize works on cloned guest side menu values only. Settings which have not been cloned are ignored.

The table below lists the settings that are restored to their cloned values when you set the Setting Auto Initialize function to On.

Menu	Menu Item	Menu	Menu Item
Picture Menu	Picture Mode	Sound Menu	Sound Mode
	Backlight		Sound Effect
	Contrast		DTS TruSurround
	Brightness		DTS TruDialog
	Sharpness		Equalizer
	Color		Speaker Settings
	Tint (G/R)		Speaker Select
	Picture Size		Auto Volume
	Picture Size		Digital Audio Out
	Position		Audio Format
	PIP		Audio Delay
	Advanced Settings		Reset Sound
	Dynamic Contrast	System Menu	Setup
	Black Tone		Menu Language
	Flesh Tone		Time
	RGB Only Mode		Clock
	Color Space		Sleep Timer
	White Balance		On Timer
	Gamma		Off Timer
	Motion Lighting		Eco Solution
	Picture Option		Energy Saving
	Color Tone		Eco Sensor
	Digital Clean View		No Signal Power Off
	MPEG Noise Filter		Auto Power Off
	HDMI Black Level		Auto Protection Time
	Film Mode		Change PIN
	LED Clear Motion		General
	Picture Off		Game Mode
	Reset Picture		Boot Logo
			Anynet+ (HDMI-CEC) : Depend on the model.
			Anynet+ (HDMI-CEC)
			Auto Turn Off
			DivX® Video On Demand

Hotel Plug & Play

The Hotel Plug & Play function, which automatically performs the Hotel mode selection, Country Setup, Clock Setup, and Picture mode Setup, runs once when power is first turned ON. Setup also runs automatically after you have executed a Service Reset.


CAS Pro:Idiom
PI AES Data 0xD279
Self Diagnosis for TV
Self Diagnosis for HTV
PI AES Log OFF
View PI AES Log ...
Upgrad Now
Service Pattern OFF
ATV cable AGC Gain Default
DTV OpenCable AGC Gain Default
TV Reset
If you select Factory Reset, the TV resets all values to their factory defaults and then displays the Hotel Plug & Play menu. Go to the first Hotel Plug & Play screen below.
Local Set
Change Locat Set if Located in North America, Latin America and Europe. In other regions, Please press SKIP button move to the next step.
Current Localset : US
Change
Skip
If you select Change
Local Set
Warning! TV might not function if local set is not correctly configured. When Local set is changed, TV Will restart automatically to apply it.
Current Localset : US
Countries for US:
None
If you change the country of the Current Location
The TV is automatically turned off and on.
If you select Skip
If you don't change the country of the Current Location
Start
Easy Set Up
Standalone Setup (Continue Setup)
Standalone Only (End Setup)
If you select Standalone Only
TV will enter the RF mode.
If you select Standalone Setup
Welcome to Samsung TV
Select your language to start the on screen setup.
English
Español
Français
Press the ▲▼◄► buttons to move the highlight. Press the enter button to select.
Select your language
Configure your TV
Select your information in the categories below.
Picture Mode Standard
Choose a picture mode that best suits your viewing environment.
Select Picture mode
Auto Program
To receive channels, configure the options below then select Scan.
Antenna Cable
Digital Cable System STD
Analog Cable System STD
Select the connected antenna.
Scan
Select the channel band to use for Auto Program
Auto Tuning
Auto Program is finding channels for you...
Cable 4
0%
Digital Cable 0
Analogue 0
Stop
After Searching channels.
Clock
You can adjust your time to set DST, Time Zone and clock mode
Clock Mode Auto
Date --/--/----
Time --:-- --
DST Off
Time Zone Eastern
Set current date and time
--:-- --
Select Clock Mode, DST, and your Time Zone
TV Setup Complete!
Your TV is now ready to use
OK
Standalone Hospitality Option Menu appears.
Press Power OFF to exit.

- **Hotel Plug & Play OSD**
  - Initially highlighted: Standalone Setup
  - If you select the Standalone Only button, the Standalone hotel mode is set by default and the “Standalone mode is set” OSD appears for 3 seconds.
    TV enters RF mode automatically after displaying the “Standalone mode has been set” OSD for 3 seconds.
  - If you select the Standalone Setup mode, the “Select Menu Language” OSD appears.

- **Local Set**
  - Initially highlighted: US
  - If you press the Enter key after selecting Change, you can change the country.
  - If the country is changed, the TV automatically turns off and on.
  - If you select the incorrect country, execute TV Reset again after entering the Service section of the Hotel Menu.

- **Select Menu Language OSD**
  - If you select Standalone from the “Select Hotel TV Mode” OSD, the “Select Menu Language” OSD appears.
  - Initially highlighted: English
  - Display time: OSD time out and operation are the same as Samsung's consumer TV models.
  - If you press the Enter key, the “Picture Mode” OSD appears

- **Picture Mode OSD**
  - Initially highlighted: Standard.
  - The TV displays the Picture Mode OSD where you can choose the Dynamic or a Standard Picture mode.

- **Auto Search Mode OSD**
  - If you press the Enter key, the TV automatically searches for channels.
  - The OSD Display time, which starts when the Auto Store operation is completed and continues until the Auto Sort function starts, is 30 seconds.

- **Set Clock Mode, DST(Daylight saving time), and Time Zone OSD**
  - Initially highlighted:
    Clock Mode : Auto, DST : Off, Time Zone : Eastern
  - If the TV will be tuned to digital broadcast channels, and these channels transmit date and time information, set the Clock Mode to Auto. The TV will set the date and time automatically.
  - If the TV will not be tuned to digital broadcast channels, set the Clock Mode to Manual, and then set the date and time on the TV manually.
  - Set DST On or Off to apply or not apply daylight saving time to the TV.
  - Select your time zone on the map that appears.

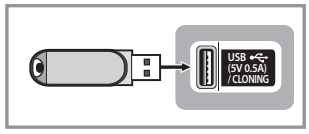
USB Software Upgrade Method

Samsung may offer upgrades to the TV's SW in the future. Please contact the Samsung Hospitality Hot line at 1-866-894-0524 to receive information about downloading upgrades and using a USB drive to update the SW by connecting the USB drive containing the upgrade to the USB port located on the TV.

When the software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you clone the hotel settings so that you can easily reset them after the upgrade.

To upgrade the TV's software, follow these steps:

1. Insert a USB drive containing the SW upgrade into the **USB** port on the side of the TV.
2. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select **Support**, and then press the **ENTER** button.
3. Press the ▲ or ▼ button to select **SW Upgrade**, and then press the **ENTER** button.
   The message **"Scanning for USB. This may take more than 1min."** is displayed.
4. The message **"Upgrade version XXXX to version XXXX? The system will be reset after upgrade."** is displayed.
   Press the ◄ or ► to select **OK**, and then press the **ENTER** button.



Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the SW upgrade. Please check the SW version after the upgrades are complete.

Channel Bank Editor (Smoovie TV Only)

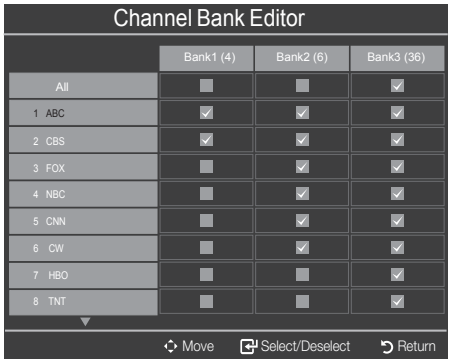
The Channel Bank Editor in conjunction with the SMOOVIE remote lets you control the channels guests have access to. The Channel Bank Editor provides three Banks of channels and lets you select which channels will be available from each bank. SMOOVIE remotes have instalable Bank Cards which correspond to the channel banks in the Channel Bank Editor. The remotes only allow access to channels in the channel bank that correspond to the installed card. Consequently, the channels a guest can access depend on the Bank Card installed in their SMOOVIE remote.

Setting the Channel Bank Editor under Stand-alone Mode

1. Press MUTE+1+1+9+ENTER↵ on the remote to enter the Hotel Standalone menu.
2. Go to SI vendor, and then select : "**Smoovie**"
3. Find the new menu option, "**Channel Bank Editor**".
4. Enter the "**Channel Bank Editor**".

- <Depending on model and region, some menu items may not exist.>

5. Edit the Channel Bank. An example is below.
   a. Bank1 (Free channel): Select the channels that will be accessible when a remote doesn't have a card.
   b. Bank2 (Family Card - Green): Select the channels that will be accessible when a remote has a GREEN CARD.
   c. Bank3 (Adult Card - Red): Select the channels that will be accessible when a remote has a RED CARD.



Information About SMOOVIE Remote Controls

- If you select SMOOVIE as the SI vendor, you should also use SMOOVIE remotes in your facility.
- Guests with remotes that do not have a card can only view channels from Bank 1.
- Guests using the Numeric keys on the remote to change channels can only view channels from Bank 1.
- Guests with remotes that have Green or Red cards must use the channel up/down keys to change channels.
- Guests can only see channels from the Bank1 channel list In the Channel Guide or the Channel List,

Smoovie Set Up Sequence

Step	Smoovie TV Setup (Air/ Cable)	
	Only Air or Cable used	Only Air or Cable used
	If the TV starts with Hotel Plug&Play	If Hotel Plug&Play already done
1	Do a complete P&P (including Air or Cable auto tune)	Enter the Hotel menu
2	After P&P, the TV displays the Hotel menu	Select the channel type - ATV or ADTV for Air - CATV or CDTV for cable
3	Select the channel type - ATV or ADTV for Air - CATV or CDTV for cable	Select Smoovie TV in the Hotel menu
4	Select Smoovie TV in the Hotel menu	Select Channel Setup
5	Select Channel Setup (Can be skipped)	Select "Air" or "Cable" to auto tune
6	Select "Air" or "Cable" to auto tune (Can be skipped,)	Set up channels in the CH Bank Editor
7	Set up channels in the CH Bank Editor	After power off & on, guests can use the TV
8	After power off & on, guests can use the TV	
9		
10		

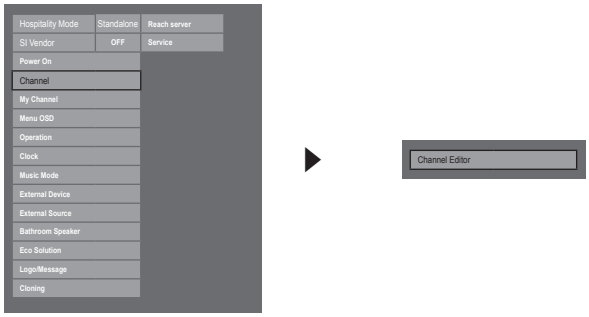
Channel Editor

The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can:

– Change the channel numbers and names, and sort the channels in your desired channel number order.

– Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen.

The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.

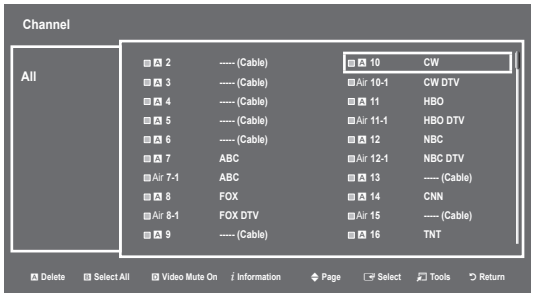


▪ <Depending on model and region, some menu items may not exist.>

General Steps for Using the Channel Editor in Stand-alone Mode

Step	Broad Outline
1	Run ‘Channel Auto Store’ in the Hotel Option Menu.
2	Enter ‘Channel Editor’ in the Hotel Option Menu.
3	On a piece of paper, compile a list of channels you want to have, arranged in the order you want.
4	Rearrange channels and edit channel names with the **TOOLS** Button based on the list you compiled.
5	Press the **EXIT** or **RETURN** Button to exit.
<For a detailed explanation of how Channel Editor works, see pages 34 through 36.>	

The picture below shows a sample Channel Editor screen.



- A Indicates an analog channel.
- Channels without an A are digital channels.

  ✎ If Dynamic SI in the Hospitality Option Menu is On, Channel Editor will display no digital channels. You must set Dynamic SI to Off before you can edit digital channels in Channel Editor.
- The guide at the bottom of the Channel Editor menu displays the remote buttons you need to press to apply Channel Editor functions.

  ❶ Using the remote's up or down arrow key, highlight the channel that you want to edit.

  – To edit more than one channel, move the highlight to a channel, and then press the ENTER↵ key. A check will appear in the check box next to the channel. Repeat for each channel you want to edit.

  ❷ To delete the channel or channels you selected from the channel list, press the red button on the remote.

  – To delete two or more channels simultaneously, select multiple channels in Step 1, and then press the red button on the remote.

  ❸ Press the green button on the remote to select all channels.

  ❹ To apply the video mute, press the yellow button on the remote.

  – To apply the video mute to two or more channels simultaneously, select multiple channels in Step 1, and then press the yellow button on the remote.

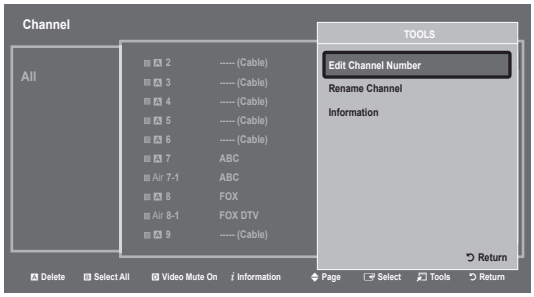
  ❺ To view information about a channel, including video mute set up, press the INFO button on the remote.

  ❻ Press the TOOLS button on the remote to rename a channel or change the channel number. See page 35.

Channel Editor Functions and Remote Buttons

A Red (**Delete**): Deletes a channel from the channel list.
B Green (**Select All**): Selects all channels at once.
C Yellow (**Deselect All**): Deselects all channels at once.
D Blue (**Video Mute On/Off**): You can set the **Video Mute On/Off**.
▲▼ (**Page**): Moves to next or previous page.
i (**Information**): Display details of the selected channel.
(**Tools**): Displays the option menu.
↩ (**Return**): Returns to the previous step or exits.

When you press the TOOLS button, the following menu is available.

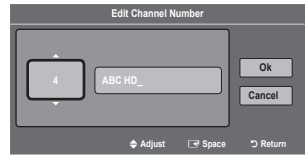


- **Edit Channel Number**

  Use **Edit Channel Number** to change the channel number of a channel you select.
  To change a channel number, follow these steps:

  1. Select a channel on the **Channel Edit** screen.
  2. Press the TOOLS button on your remote.
  3. Select **Edit Channel Number** in the Tools menu.
  4. Use the up or down arrow keys to change the channel number.
  5. Select **OK** when done, and then press the ENTER button.

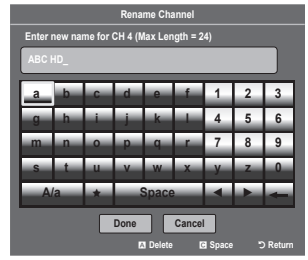
  ✎ When you change the channel number, the channel information is not updated automatically.



- **Rename Channel**

  Use **Rename Channel** to change the name of a channel you select.
  To change the name of a channel, follow these steps:

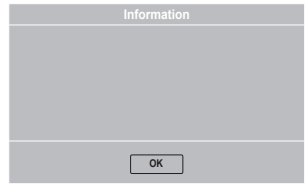
  1. Select a channel on the Channel Edit screen.
  2. Press the TOOLS button on your remote.
  3. Select **Rename Channel** in the Tools menu.
  4. Use the on-screen keyboard that appears to enter the new name for the channel. Use the arrow buttons on your remote to select a letter or number, and then press Enter. Repeat for each letter or number you want to select.
  5. When finished, select **Done** on the bottom of the screen, and then press the ENTER button.


Rename Channel
Enter new name for CH 4 (Max Length = 24)
ABC HD_
a b c d e f 1 2 3
g h i j k l 4 5 6
m n o p q r 7 8 9
s t u v w x y z 0
A/a * Space
Done
Cancel
Delete
Space
Return

- **Information**

  Use Information to view information about a channel you select.
  To view information about a channel, follow these steps:

  1. Select a channel on the Channel Edit screen.
  2. Press the TOOLS button on your remote.
  3. Select **Information** in the Tools menu.
  4. Select **OK**, and then press the ENTER button to close the Information screen.

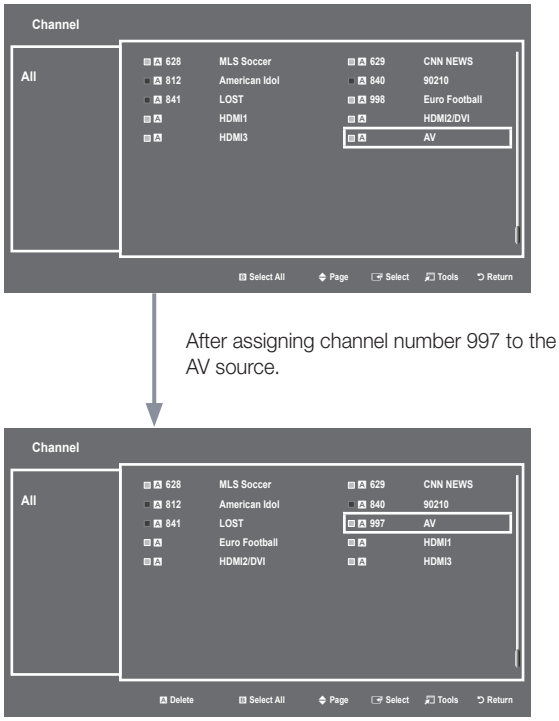


The external sources of this TV are displayed in the last page of the Channel Editor menu as shown in the example below.

In the example, there are two external sources connected to the TV, **HDMI2 (DVI)** and AV.

– You can assign a new analog channel to an external source by selecting the source on the last page, pressing the **TOOLS** button, selecting **Edit Channel Number**, and then using the up or down arrow button on the remote to select the channel number of the analog channel.

– If you tune to a channel after assigning the channel to an external source, you can enter the external source without opening the TV source menu.



Installing the Wall Mount

Wall or Ceiling Mounting

If you mount this product on a wall, it should be mounted only as recommended by the manufacturer. Unless it is correctly mounted, the product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

Installing the Wall Mount Kit

The wall mount kit (sold separately) lets you mount the TV on the wall. For detailed information about installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

To order the wall mount, contact Samsung Customer Care at 1-800-SAMSUNG (1-800-726-7864).

Wall Mount Kit Specifications (VESA)

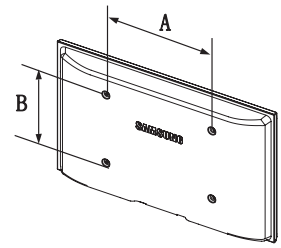
✎ The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to building materials other than plaster board, please contact your nearest dealer. If you install the wall mount on a ceiling or slanted wall, TV may fall and cause severe personal injury.

✎ **NOTE**

- Standard dimensions for wall mount kits are shown in the table below.
- Samsung wall mount kits contain a detailed installation manual. All parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57” and 63” models do not comply with VESA Specifications. Use Samsung's dedicated wall mount kit for these models.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV onto a wall.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw (Length* Pitch in mm)	Quantity
LED-TV	19~22	75 X 75	M4 (10~15 * 0.7)	4
	26~28	100 X 100		
	32~42	200 X 200	M8 (10~15 * 1.25)	
	46~60	400 X 400		



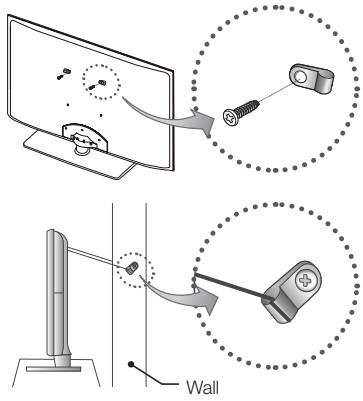
Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Securing the TV to the Wall

Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

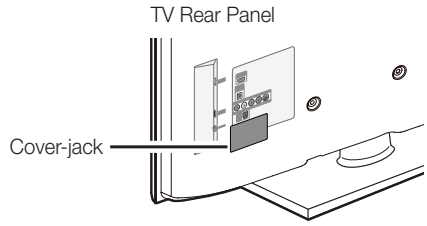
To Avoid the TV from Falling

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - ✎ You may need additional material such as an anchor depending on the type of wall.
   - ✎ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the back center of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - ✎ Screws may not be supplied with the product. In this case, please purchase the screws.
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
   - ✎ NOTE
     - Install the TV near to the wall so that it does not fall backwards.
     - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
     - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.



Caution of the cover-jack

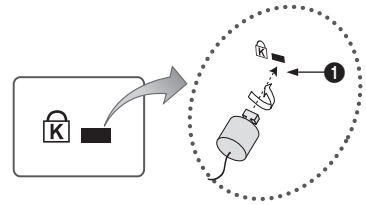
CAUTION: The cover-jack is for use by qualified service personnel only. To reduce the risk of electric shock or fire hazard, do not use the cover jack, unless you are qualified to do so.



✎ The rear panel may differ depending on the model.

Anti-theft Kensington Lock

The Kensington Lock is a device you can use to physically fix a TV to a location when you use it in a public place. The appearance and locking method may differ from the illustration at right, depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.



<Optional>

The Kensington Lock is not supplied by Samsung.

✎ Please find a "" icon on the rear of the TV. A Kensington slot is beside the "" icon.

To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product ❶.
4. Lock the lock.

✎ These are general instructions. For exact instructions, see the User manual supplied with the locking device.

✎ The locking device has to be purchased separately.

✎ The location of the Kensington slot may be different depending on the TV model.

Specifications

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F(10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F(-20°C to 45°C) 5% to 95%, non-condensing	
Model Name	HG32NB460	HG39NB460
Display Resolution	1366 x 768	1920 x 1080
Screen Size (Diagonal)	32" Class (31.5" measured diagonally)	39" Class (38.5" measured diagonally)
Sound (Output)	5W x 2	10W x 2
Dimensions (WxHxD) Body With stand	 29.0 X 17.4 X 3.6 inches (738.4 X 444.0 X 93.2 (mm)) 29.0 X 19.5 X 7.5 inches (738.4 X 497.7 X 191.7 (mm))	 35.2 X 20.9 X 3.6 inches (895.9 X 532.5 X 93.2 (mm)) 35.2 X 23.2 X 8.9 inches (895.9 X 589.3 X 227.6 (mm))
Weight Without Stand With Stand	 11.9 lbs (5.4 kg) 13.2 lbs (6.0 kg)	 17.1 lbs (7.8 kg) 21.6 lbs (9.8 kg)

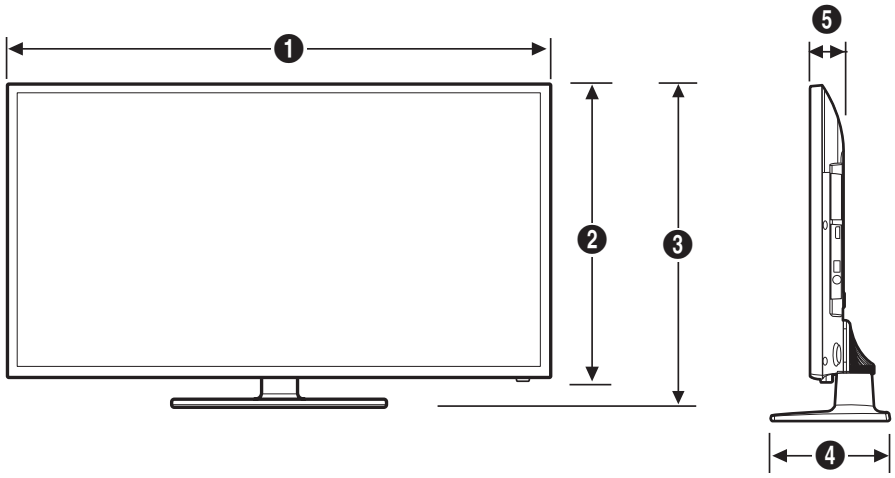
✎ Design and specifications are subject to change without prior notice.

✎ This device is a Class B digital apparatus.

✎ For information about the power supply and more information about power consumption, refer to the label attached to the product.

Dimensions

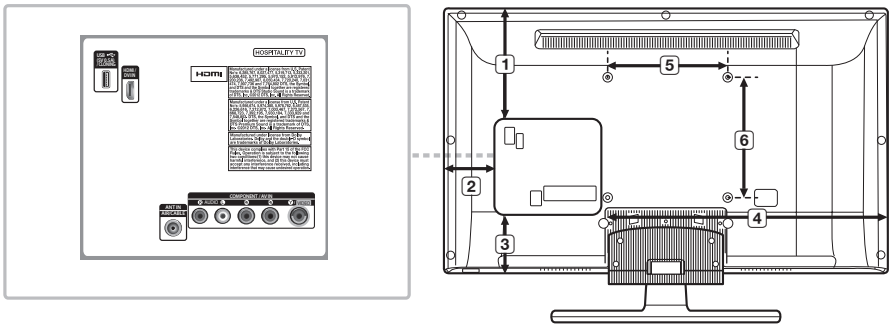
▪ Front view / Side view



(Unit: inches)

	❶	❷	❸	❹	❺
HG32NB460	29.0	17.4	19.5	7.5	3.6
HG39NB460	35.2	20.9	23.2	8.9	3.6

▪ Jack panel detail / Rear view



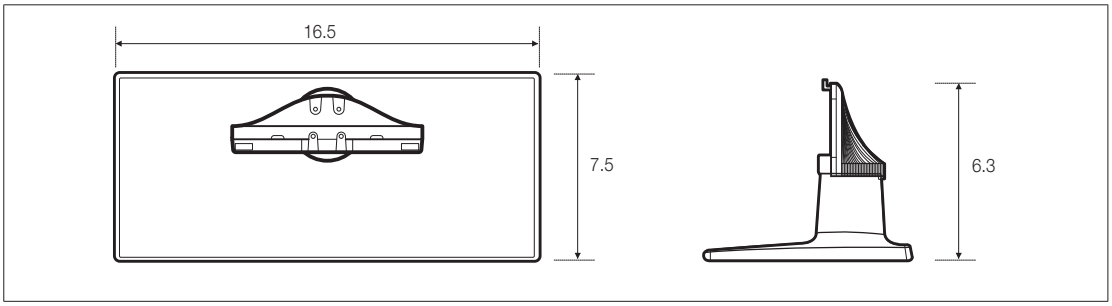
(Unit: inches)

	❶	❷	❸	❹	❺	❻
HG32NB460	7.5	3.4	3.9	19.0	7.8	7.8
HG39NB460	9.3	5.2	5.6	23.5	7.8	7.8

▪ Base Stand detail

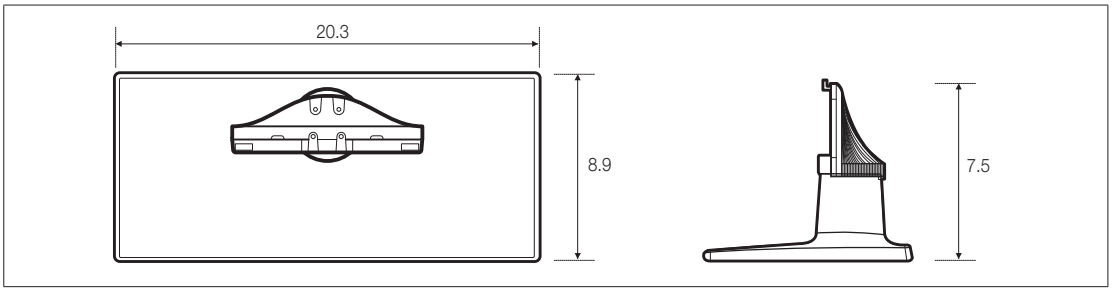
HG32NB460

(Unit: inches)



HG39NB460

(Unit: inches)



NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

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Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Important Warranty Information Regarding Television Format Viewing

✎ See the warranty card for more information on warranty terms.

Wide screen format LED Displays (with aspect ratios of 16:9, the ratio of the screen width to height) are primarily designed to display wide screen format full-motion video. The images displayed on them should primarily be in the wide screen, 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market crawls, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven LED aging as a result of format selection and use, as well as burnedin images, are not covered by your Samsung limited warranty.

- SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

  Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

  The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

  Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

  For the location of a SAMSUNG Authorized Service Center, please call toll-free:

  – In the United States : 1-866-894-0524

  – In Canada : 1-800-213-8513

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